QC ABSTRACT

NAME OF WORK: "Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	9 set /251-300 cum	267.52	18	18
8	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	10 set /301-350 cum	338.7	20	20
9	GSB	SIEVE ANALYSIS	One Test		1	1

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ ಕಛೇರಿ
ದ್ಯಾವರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-01-12-36** **Date: 30-11-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-11-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-11-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.98	–
2	Finess by Air permeablity method (m^2/kg,Min)	297.3	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-01-12-36** **Date: 26-12-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-11-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	28-11-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-01-12-36** **Date: 01-12-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	28-11-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-11-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	5049	5263	35.1	64.9	30-70
4	10 mm	7132	12395	82.6	17.4	10-35
5	4.75 mm	2121	14516	96.8	3.2	0-5
6	Pan	484	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-01-12-36** **Date: 01-12-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.39	–
5	Bulk Density(Compacted) (Kg/l)	1.46	–
6	Water Absorption(%)	0.22	–

• The results obtained are satisfactory as per standard requirements.

Note:

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Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-01-12-36** **Date: 01-12-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-11-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-11-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	195	195	3.9	96.1	90-100
3	10 mm	2714	2909	58.2	41.8	25-55
4	4.75 mm	1988	4897	97.9	2.1	0-10
5	Pan	103	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-01-12-36** **Date: 01-12-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.57	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-01-12-36** **Date: 03-12-20**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/BTP/WO/144/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-11-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 30-11-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-01-12-36**

Date: 03-12-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2021-01-12-36** **Date: 02-12-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-12-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	01-12-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

CIVIL Pro Sig..... Date..... BANGALORE

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF PRECAST COVER SLAB

Date: 26-12-20

Lab ID	:	**CP-2021-01-12-36**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-12-20
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	22/12/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/12/2020

Lab ID	:	CP-2021-01-12-36
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-12-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	151.34 X 151.47 X 150.27	22923	8.789	413.1	18.0	18.5
2	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	149.70 X 150.39 X 149.70	22513	8.494	426.9	19.0	
3	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	149.11 X 149.30 X 150.85	22263	8.383	414.1	18.6	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-36** **Date: 11/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-12-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	149.30 X 151.76 X 150.10	22657	8.592	526.7	23.2	22.9
2	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	150.23 X 149.11 X 151.78	22401	8.938	493.7	22.0	
3	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	151.65 X 150.50 X 149.89	22823	8.502	537.0	23.5	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/12/2020

Lab ID	:	CP-2021-01-12-36
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No.05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-12-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	150.76 X 150.77 X 150.38	22730	8.789	427.4	18.8	18.6
2	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	149.27 X 151.83 X 150.36	22663	8.494	419.2	18.5	
3	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	149.97 X 150.74 X 150.05	22606	8.383	414.9	18.4	

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-36** **Date: 11/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-12-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	150.48 X 149.34 X 149.27	22473	8.592	516.9	23.0	23.2
2	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	151.76 X 150.61 X 151.44	22857	8.938	522.6	22.9	
3	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	150.81 X 151.17 X 151.65	22797	8.502	540.0	23.7	

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Certificate No : TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-36** **Date: 21/12/2020**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-12-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	151.83 X 150.84 X 151.96	22902	8.789	417.8	18.2	18.4
2	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	149.71 X 150.34 X 149.02	22507	8.494	418.2	18.6	
3	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	151.49 X 151.38 X 149.63	22934	8.383	418.4	18.2	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-36** **Date: 21/12/2020**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-12-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	151.83 X 150.84 X 151.96	22902	8.789	417.8	18.2	18.4
2	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	149.71 X 150.34 X 149.02	22507	8.494	418.2	18.6	
3	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	151.49 X 151.38 X 149.63	22934	8.383	418.4	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-12-36 **Date: 11/01/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/BTP/WO/144/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-12-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	150.69 X 151.57 X 149.40	22840	8.592	543.0	23.8	23.3
2	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	149.51 X 150.12 X 149.48	22445	8.938	497.9	22.2	
3	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	151.79 X 151.40 X 150.04	22981	8.502	547.7	23.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

CIVIL Pro Sig..... Date..... BANGALORE

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-36** **Date: 21/12/2020**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-12-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	149.83 X 149.31 X 151.53	22371	8.789	424.8	19.0	
2	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	149.08 X 151.04 X 150.01	22517	8.494	424.3	18.8	18.8
3	Drain Bottom Slab Concrete	M20	14/12/2020	21/12/2020	150.00 X 150.63 X 149.74	22595	8.383	417.6	18.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/01/2021

Lab ID	:	CP-2021-01-12-36
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-12-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	151.74 X 151.46 X 150.69	22982	8.592	548.0	23.8	23.3
2	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	149.16 X 149.15 X 151.53	22246	8.938	510.9	23.0	
3	Drain Bottom Slab Concrete	M20	14/12/2020	11/01/2021	151.61 X 150.74 X 151.70	22853	8.502	529.4	23.2	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/12/2020

Lab ID	:	CP-2021-01-12-36
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	149.68 X 149.32 X 150.80	22351	8.789	414.0	18.5	18.4
2	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	150.56 X 151.02 X 149.85	22738	8.494	417.0	18.3	
3	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	149.99 X 151.45 X 150.46	22716	8.383	415.6	18.3	

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Technical Manager

Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-12-36** **Date: 15/01/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/BTP/WO/144/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-12-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	151.56 X 149.02 X 150.65	22585	8.592	532.1	23.6	23.3
2	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	151.98 X 149.57 X 150.95	22731	8.938	516.2	22.7	
3	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	151.07 X 149.30 X 151.48	22555	8.502	531.5	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/12/2020

Lab ID	:	**CP-2021-01-12-36**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	149.96 X 151.59 X 150.22	22732	8.789	430.9	19.0	18.9
2	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	151.56 X 149.89 X 151.32	22717	8.494	431.2	19.0	
3	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	150.82 X 149.57 X 151.22	22557	8.383	424.3	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/12/2020

Lab ID	:	CP-2021-01-12-36
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	149.96 X 151.59 X 150.22	22732	8.789	430.9	19.0	18.9
2	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	151.56 X 149.89 X 151.32	22717	8.494	431.2	19.0	
3	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	150.82 X 149.57 X 151.22	22557	8.383	424.3	18.8	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/01/2021

Lab ID	:	**CP-2021-01-12-36**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	151.76 X 151.63 X 151.20	23012	8.592	534.5	23.2	23.0
2	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	151.78 X 150.04 X 151.69	22773	8.938	508.6	22.3	
3	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	149.97 X 150.12 X 150.71	22514	8.502	527.7	23.4	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/12/2020

Lab ID	:	CP-2021-01-12-36
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	149.07 X 150.73 X 150.32	22469	8.789	422.0	18.8	18.6
2	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	149.53 X 151.92 X 150.94	22717	8.494	424.9	18.7	
3	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	149.17 X 149.82 X 152.00	22349	8.383	409.9	18.3	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/01/2021

Lab ID	:	CP-2021-01-12-36
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	151.28 X 150.23 X 150.74	22727	8.592	535.8	23.6	23.2
2	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	151.35 X 150.78 X 149.18	22820	8.938	507.7	22.2	
3	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	150.72 X 151.34 X 149.69	22810	8.502	542.4	23.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/12/2020

Lab ID	:	CP-2021-01-12-36
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	150.65 X 151.69 X 151.60	22853	8.789	430.7	18.8	18.6
2	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	150.25 X 150.30 X 150.93	22581	8.494	424.2	18.8	
3	Drain Side Wall Concrete	M20	18/12/2020	25/12/2020	151.91 X 149.93 X 149.67	22777	8.383	416.3	18.3	

• The results obtained are satisfactory as per standard requirements.

Note:
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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/01/2021

Lab ID	:	CP-2021-01-12-36
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	149.30 X 150.28 X 150.31	22437	8.592	534.4	23.8	23.1
2	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	149.33 X 149.38 X 151.23	22307	8.938	504.5	22.6	
3	Drain Side Wall Concrete	M20	18/12/2020	15/01/2021	149.08 X 151.60 X 151.10	22600	8.502	520.1	23.0	

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/01/2021

Lab ID	:	CP-2021-01-12-36
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/01/2021	11/01/2021	150.63 X 151.31 X 151.35	22792	8.430	580.5	25.5	25.4
2	Cement Concrete Pavement	M30	04/01/2021	11/01/2021	150.11 X 150.25 X 149.06	22554	8.378	599.4	26.6	
3	Cement Concrete Pavement	M30	04/01/2021	11/01/2021	149.09 X 150.63 X 151.76	22458	8.184	542.2	24.1	

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Certificate No : TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-36** **Date: 01/02/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/01/2021	01/02/2021	151.62 X 151.20 X 149.51	22925	8.641	762.9	33.3	33.2
2	Cement Concrete Pavement	M30	04/01/2021	01/02/2021	150.72 X 151.42 X 149.97	22822	8.681	751.1	32.9	
3	Cement Concrete Pavement	M30	04/01/2021	01/02/2021	150.98 X 150.22 X 149.07	22679	8.201	757.4	33.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/01/2021

Lab ID	:	**CP-2021-01-12-36**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	08/01/2021	15/01/2021	150.06 X 149.63 X 149.62	22453	8.430	581.4	25.9	25.9
2	Cement Concrete Pavement	M30	08/01/2021	15/01/2021	151.66 X 151.43 X 149.78	22965	8.378	619.3	27.0	
3	Cement Concrete Pavement	M30	08/01/2021	15/01/2021	149.10 X 151.12 X 151.73	22532	8.184	559.3	24.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/02/2021

Lab ID	:	**CP-2021-01-12-36**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/BTP/WO/144/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	08/01/2021	05/02/2021	150.39 X 149.53 X 150.92	22488	8.641	759.5	33.8	33.2
2	Cement Concrete Pavement	M30	08/01/2021	05/02/2021	151.18 X 150.65 X 149.53	22776	8.681	732.1	32.1	
3	Cement Concrete Pavement	M30	08/01/2021	05/02/2021	149.45 X 151.23 X 150.37	22601	8.201	764.6	33.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-12-36** **Date: 15/01/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/BTP/WO/144/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	08/01/2021	15/01/2021	149.05 X 150.47 X 149.08	22428	8.430	572.2	25.5	25.5
2	Cement Concrete Pavement	M30	08/01/2021	15/01/2021	149.71 X 149.33 X 149.94	22357	8.378	588.3	26.3	
3	Cement Concrete Pavement	M30	08/01/2021	15/01/2021	149.88 X 149.56 X 151.40	22416	8.184	550.0	24.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-12-36 **Date: 05/02/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.S.Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/BTP/WO/144/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	08/01/2021	05/02/2021	150.89 X 150.54 X 149.87	22715	8.641	750.2	33.0	33.2
2	Cement Concrete Pavement	M30	08/01/2021	05/02/2021	149.37 X 150.34 X 149.07	22457	8.681	739.1	32.9	
3	Cement Concrete Pavement	M30	08/01/2021	05/02/2021	150.54 X 151.10 X 150.65	22748	8.201	768.0	33.8	

• The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

End of Report****

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